	Name	e:		F	er:	
4 11 (** 1 1 1 1 1 1 1 1	Unit 7 Study Guide					
1a. Identify whether each described event	Independent		Dependent	1		
A. Choosing 2 students, given period 2 and the second st	that the first student is from udent is from period 4.			Dependent		
B. Rolling a number cube twice	-					
C. Choosing 2 shirts from the	closet without replacement.					
1b. Identify whether each described even	t is independent or dependent.				1	
		Indep	endent	Dependent		
A. Choosing 6 cards from the	deck, replacing each one.	L	<u>_</u>			
B. Choosing socks from a draw	B. Choosing socks from a drawer and shoes from the closet.					
C. Spinning a spinner 5 times	C. Spinning a spinner 5 times.					
1c. Identify whether each described event	is independent or dependent					
1c. Identify whether each described event	. is maependent of dependent.	Indep	endent	Dependent		
A. Choosing 2 marbles from a	bag without replacement.					
B. Selecting 2 different studer	nts from the same classroom.					
C. Choosing an M&M and a Sk from a different bag.	cittle, given that each candy was					
2a. If you choose an M&M from a bag that has 12 green, 14 red, 10 yellow and 6 blue M&Ms and then choose between a Pepsi, a Sprite and a Fanta, what is the probability that you will get a yellow M&M and a Fanta?	2b. If you choose a card from a 52 deck, which has 2 red Kings and 2 Kings, and then flip a coin, what is probability that you will get a red and heads?	black l the s King	has 5 red , z shirts and t with 2 blac what is the	hoose a shirt from a 7 blue, 3 green and 9 then pick a hat from k, 11 pink and 7 yell probability that you and a black hat?	orange a closet ow hats,	
3a. There are 6 rabbits, 4 chickens and 3 ducks. If 2 are chosen without replacement, what is the probability of choosing two chickens?	3b. There are 5 soccer players, 8 baseball players, 2 dancers and a football player. If 2 are chosen wit replacement, what is the probabili choosing two baseball players?	thout 1	microwave replacemer	are 2 toasters, 3 TVs  If 2 are chosen with  t, what is the proba  vo toasters?	hout	

Name:	Per:

## Use the two-way frequency table shown below to evaluate problems 4 & 5. ${\hbox{\tt Concession Sales}}$

	Pizza	Hot Dog	Burger	No Food	TOTAL
Soda	12	10	14	7	43
Water	11	7	10	9	37
No Drink	8	13	11	0	32
TOTAL	31	30	35	16	112

4a. What is the probability that a customer selected at random bought a hot dog?	4b. What is the probability that a customer selected at random bought a water?	4c. What is the probability that a customer selected at random bought pizza?
5a. What is the probability that a customer selected at random bought a burger, given that he or she bought a soda?	5b. What is the probability that a customer selected at random bought water, given that he or she bought hot dog?	5c. What is the probability that a customer selected at random bought no food, given that he or she bought a water?

**Unit 7 Study Guide Answers** 

1a.				11	ວ			1c			
		Independent	Dependent			Independent	Dependent		Independent	Dependent	
	A.	X			A.	X		Α		X	
	В.	X			B.	X		E		X	
	C.		X		C.	X		C			
2a. 7.9% 2b. 1.9%					2c. 2.	1%					
3a	3a. 7.7% 3b. 23.3%					3c. 6.7%					
4a	4a. 26.8% 4b. 33.0%				4c. 27.7%						
5a.	5a. 32.6% 5b				o. 23.	3%		5c. 24.3%			